



Zebra Technologies International, LLC

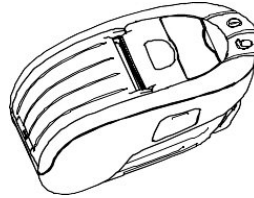
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ZEBRA MOBILE LINE *MZ*TM series PRINTER SPECIFICATIONS

Specifications are provided for reference and are based on printer tests using Zebra brand supplies. Results may vary in actual application settings or when using other than recommended Zebra supplies.

Standard Features

- 203 dpi (8 dots/mm) print resolution
- Direct thermal printing
- 32 bit processor
- 4 MB flash/ 8 MB RAM memory
- 1.5 Ah Li-Ion battery
- USB 2.0 serial connection
- Resident Scaleable Fonts
- Tear strip for easy receipt dispensing
- Supports vertical or horizontal printing
- External power on/off from keypad or terminal
- Open access design for easy loading
- AC power adapter included with printer
- IrDA connectivity
- Tolerance of multiple drops up to 4' to concrete



Printer Control Language

- Communicates in printable ASCII characters
- Compatible with mainframe, mini, and PC hosts
- Downloadable objects include graphics and bitmap Fonts, scalable fonts, label templates and formats.
- Label Vista Utility for easy formatting and label design. This utility allows to manage flash file systems, obtain information about firmware and applications, configure for use in other countries and set parameters
- Scalable concatenation
- Automatic memory allocation for format while printing
- Automatic serialization of fields
- Automatic print head temperature compensation
- Format inversion (white on black)
- Four position field rotation (0°, 90°, 180°, 270°)
- Power management controls and adjustable sleep mode
- Programmable label odometer with on-demand terminal reporting
- Status messages to host upon request
- Monitor and report battery voltage and temperature

Optional Features

- 4 bay printer power station for easy charging
- Wireless Connectivity Options:
 - ⇒ Optional BluetoothTM short range connectivity
 - ⇒ Optional Wireless LAN (802.11b/g) radio
- Protective skin and shoulder strap

Software

- **Printer Control Language** – The *MZ series* mobile printer comes equipped with CPCL ensuring easy integration into existing systems that run Zebra mobile printers – without the need for additional software.

Printing Specifications

- 203 dpi resolution (8 dots/mm)
- Programmable print speed: up to 3"/76.2 mm per second

Media Specifications

NOTE: For optimum print quality and printer performance, use of genuine Zebra Supplies is recommended.

	<i>MZ 220</i>	<i>MZ 320</i>
Media Width	2.0" (+/- 0.03"), 50.8 mm (+/- 0.76mm)	3.0" (+/- 0.03"), 76.2mm (+/- 0.76mm)
Max. Print Width	1.9" (48.3mm)	2.9" (73.7mm)
Max. Roll Length	66.7' with 2.4 mil paper. 48' with 3.2 mil paper.	66.7' with 2.4 mil journal. 48' with 3.2 mil paper.
Label Roll ID Core	0.4"(10.2 mm.) to 0.75"(17.78 mm)	0.4"(10.2 mm.) to 0.75"(17.78 mm)
Label Roll OD Max.	1.88"/47.8 mm	1.88"/47.8 mm
Max. Media Thickness	4 mil (0.1016 mm)	4 mil (0.1016 mm)

Bar Code Symbolologies & Specifications

- **Bar Code Ratios:** 1.5:1, 2:1, 2.5:1, 3:1, 3.5:1
- **Bar code Symbolologies:** Code 39, UPC-A, Code 93, UPC-E, Code 128, Codabar, EAN-8, MSI/Plessey, EAN-13, Interleaved 2 of 5, Postnet, UCC-128, Facing Ident Mark, NW-7, Codablock F
- **Two-dimensional Bar Codes:** PDF 417, MaxiCode, QR code and Aztec.

Font Specifications: 203 dpi (8 dots/mm)

Fonts	Matrix (in dots) (H x W)	Minimum Char. Size (H x W)	Maximum CPI
0 (Standard)	9 x 8	.044" x .039"	25.4
1 (min. width)	48 x 13	.236" x .064"	15.6
1 (max. width)	48 x 39	.236" x .192"	5.2
2 (OCR-A)	12 x 20	.059" x .099"	10.2
4 Size 0 (min. width)	47 x 11	.232" x .054"	18.5
4 Size 0 (max. width)	47 x 43	.232" x .212"	4.7
5 Size 0 (min. width)	24 x 7	.118" x .034"	29
5 Size 0 (max. width)	24 x 23	.118" x .113"	8.8
6 (MICR)	27 x 28	.133" x .138"	7.3
7	24 x 12	.118" x .059"	16.9

- Supports pre-scaled and scalable fonts
- Standard resident fonts can be rotated in 90° increments
- Supports user defined fonts and graphics and logos
- Text concatenation to assign different character styles
- Allows text magnification 1-16 times the original size
- Proportional and fixed-width fonts

Communications Specifications

- Communication interface: USB 2.0
- Bluetooth Profiles supported: SDP, GAP, SPP.
- WLAN (802.11b/g) , support for the following security protocols: WEP, LEAP, PEAP, EAP-FAST, EAP-TLS, EAP-TTLS. WPA with the protocols listed, and WPA2-PSK (AES or TKIP).

Electrical Specifications

- Battery: 1.5 Ah rechargeable Li-Ion battery
- Agency approvals: FCC Part 15 and EN55022 Class B limits; FCC, IC, and European Standards for Bluetooth and 802.11b/g; IEC 60950 standard for Safety; NOM, C-tick, VCC (Japan RF), DGT, BSMI, MIC, CCC, SRRC, IDA, NTC, CNC, S-Mark, and ANATEL.

Physical Specifications

	<i>MZ 220</i>	<i>MZ 320</i>
Height	5.34" (167.6 mm)	5.34" (135.6 mm)
Width	3.18" (80.77 mm)	4.11" (104.4 mm)
Depth	2.26" (57.4 mm)	2.26" (57.4 mm)
Weight	0.70 lbs. (0.32 kg)	0.75 lbs. (0.34 kg)

* Weight with battery and no media is provided

Environmental Specifications

- Operating Temp. 14° F/-10° C to 122° F/50° C
- Storage Environ. -4° F/-20° C to 140° F/60° C
- Relative humidity: 10% - 90% non-condensing

Preventative Maintenance

- **Cleaning:**
Zebra recommends cleaning the *Mobile Line* printer on a regular basis using standard Zebra printer parts and cleaning supplies. Consult your *User's Guide* for further details. The exterior is cleaned with a lint-free cloth, and if necessary, a mild detergent solution or desktop cleaner. Interior components are cleaned with alcohol or blown air to remove any particles.
- **Battery:**
It is recommended that the battery be fully discharged several times by cycling it (fully charging/ discharging through normal use) to maximize performance.
- **Lubrication:**
All mechanical parts are self-lubricating and do not require additional lubrication.
- **Registration:**
Media registration and minimum label length are affected by media type and width, and print speed. Performance improves as these factors are optimized. Zebra recommends always qualifying any application with thorough testing